

Claims

What is claimed is:

1. A system for capturing, encoding and transmitting continuous video from a camera to a display monitor via a network, comprising:
 - a. A display monitor for displaying video from the camera;
 - b. The display monitor being separated into a plurality of operating zones, including;
 - c. A map zone including a camera icon on the map for indicating where the camera is located;
 - d. A display zone for displaying the video captured by the camera; and
 - e. A control zone for on screen control of the camera, map and display functions.
2. The system of claim 1, further including a plurality of cameras, each identified by a specific icon on the map.
3. The system of claim 1, further including a directional character for indicating the direction where the camera is aimed within the map.
4. The system of claim 3, further including a selector adapted for altering the direction of the camera.
5. The system of claim 4, wherein the camera direction selector is controlled by typing in a camera angle.
6. The system of claim 4, wherein the camera direction selector is controlled by rotating the camera icon.
7. The system of claim 4, wherein the camera direction selector is automatically controlled by a panning feature on the camera and is always displayed on the map.

8. The system of claim 5, further including a control device adapted for assigning a priority to an event captured at a camera and activating a display of the camera video based on the event occurrence.

9. The system of claim 2, wherein the display zone may be configured to selectively display the video from any single camera or any combination of the cameras.

10. The system of claim 2, further including a plurality of monitors with a first monitor being designated as a primary monitor and including the map zone, display zone and the control zone and with an additional monitor being designated a secondary monitor with the entire video screen function being dedicated to the display of camera videos.

11. The system of claim 10, wherein the control function of the primary monitor is used to control the video display on the secondary monitor.

12. The system of claim 1, wherein the display monitor includes a mapping feature illustrating the location of the camera.

13. The system of claim 12, wherein the output signal for the camera may be selected by activating the camera location on the mapping feature.

Sub A11 → 14. The system of claim 10, wherein the primary monitor includes a control for selectively subdividing the display area of the secondary monitor into a plurality of panes for simultaneously displaying a plurality of video images from a selected plurality of cameras.

Sub A12 → 15. The system of claim 1, wherein the display monitor includes an initial logon screen presented to the user, and wherein access to the user is denied until a user .

16. The system of claim 15, wherein the logon screen includes a select feature adapted for permitting the user to elect the loading of presets.

17. The system of claim 15, wherein the logon screen includes a select feature adapted for permitting the user to customize the system.

18. The system of claim 1, wherein the display monitor is implemented as HTML or XML pages generated by a network application server.

19. The system of claim 1, wherein the map zone includes a plurality of maps.

20. The system of claim 19, wherein the plurality of maps are accessed via a pull or drop-down menu.

21. The system of claim 20, wherein each of the maps further includes graphical icons depicting sensors which are accessible by the system.

22. The system of claim 2, further including a graphical icon for depicting each camera and representing the location of the camera on the map.

23. The system of claim 22, wherein the graphical icon representing a camera is constructed for clearly depicting the direction in which the camera is currently pointed.

24. The system of claim 2, including a drop-down menu associated with each camera for selecting operating parameters of the camera including still-frame capture versus motion capture, bit-rate of the captured and compressed motion video, camera name, camera caption, camera icon direction in degrees, network address of the various camera encoders, and quality of the captured still-frame or motion video.

Sub A13 25. The system of claim 22, further including a control for selecting and dragging a camera to the display zone whereby a users may cause video to be displayed

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cancel

in any given pane by dragging the desired camera icon to a desired display pane and dropping it.

26. The system of claim 25, wherein a user may clear any desired display pane by dragging the selected video off of the display pane, and dropping it.

27. The system of claim 1, further including a drop-down menu in the display zone including operating information relating to the video displayed therein.

Sub A14

28. The system of claim 27, said information including camera network address, current network bandwidth used, images size expressed in pixels, type of codec used to capture and display the video, type of error correction currently employed, number of video frames skipped, captured frame rate, encoded frame rate, and number of network data packets received, recovered after error correction, or lost.

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